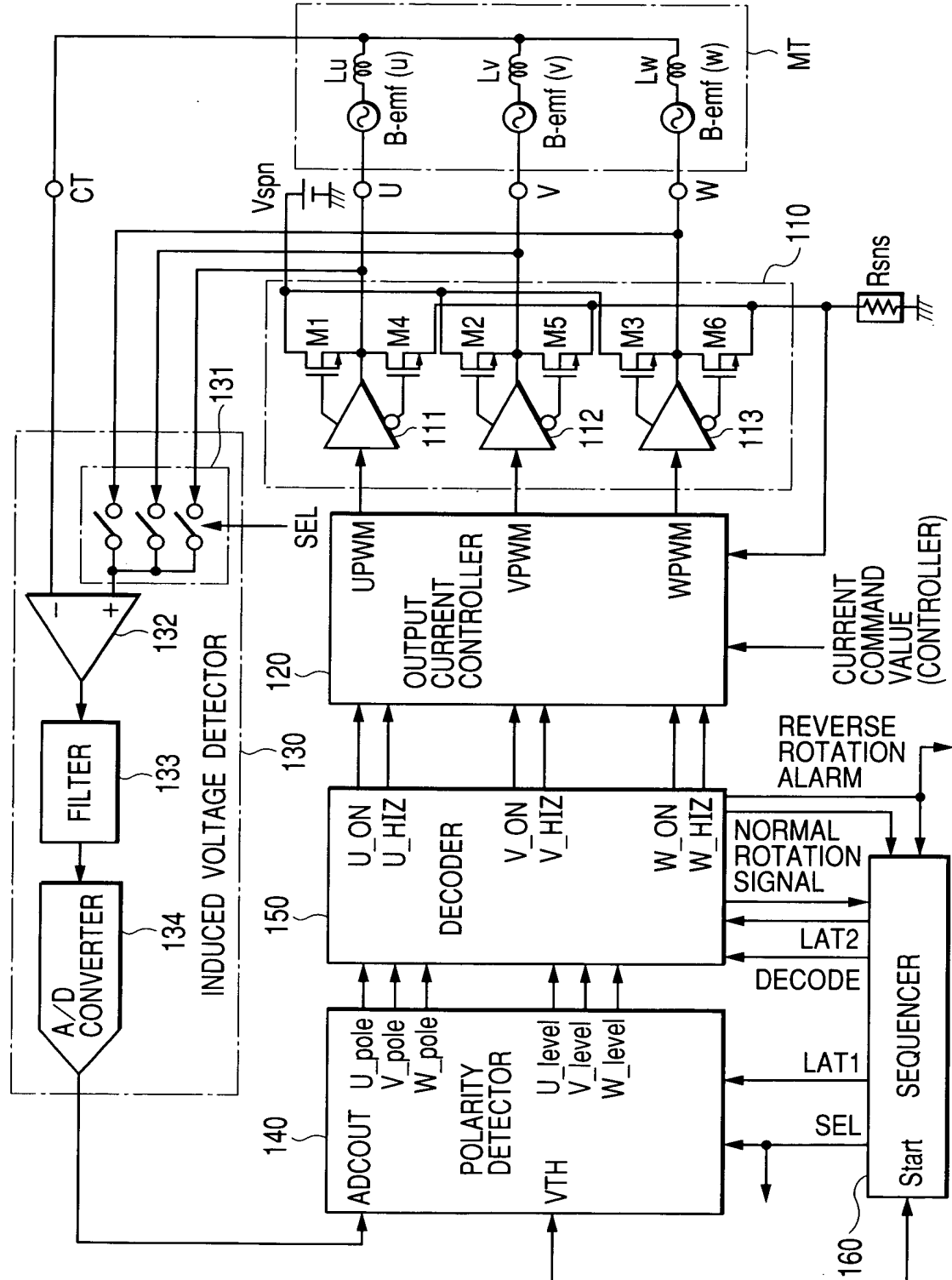


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FIG. 1



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FIG. 2(a)

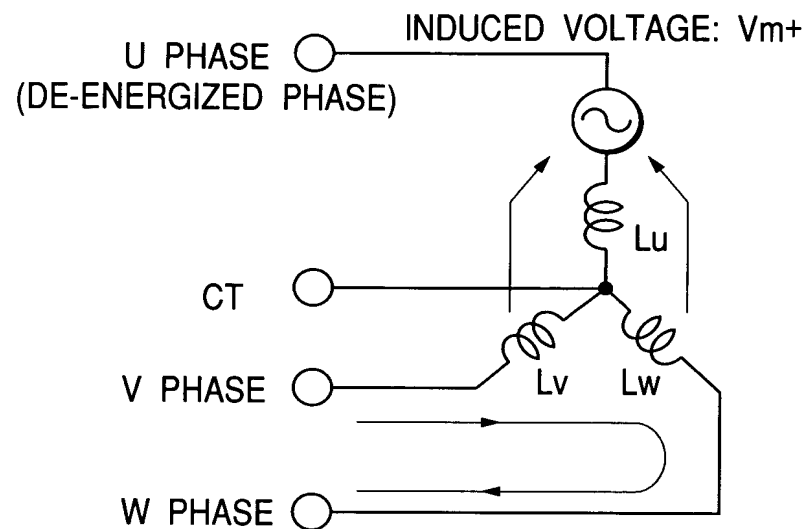
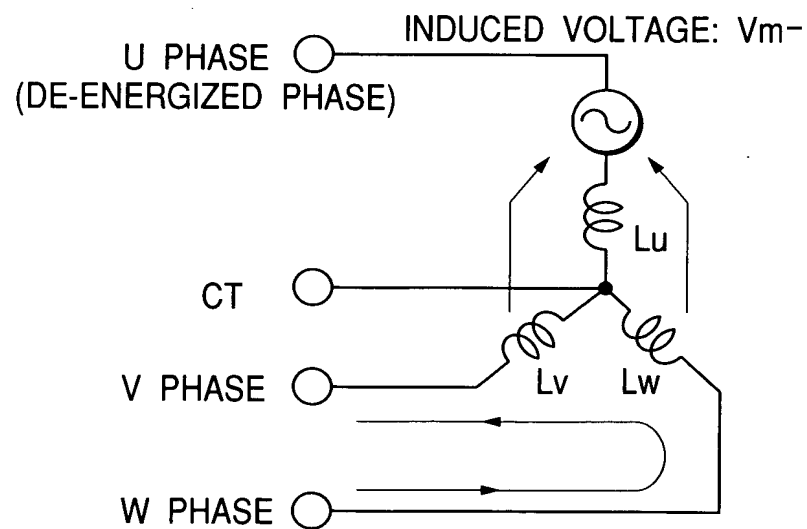
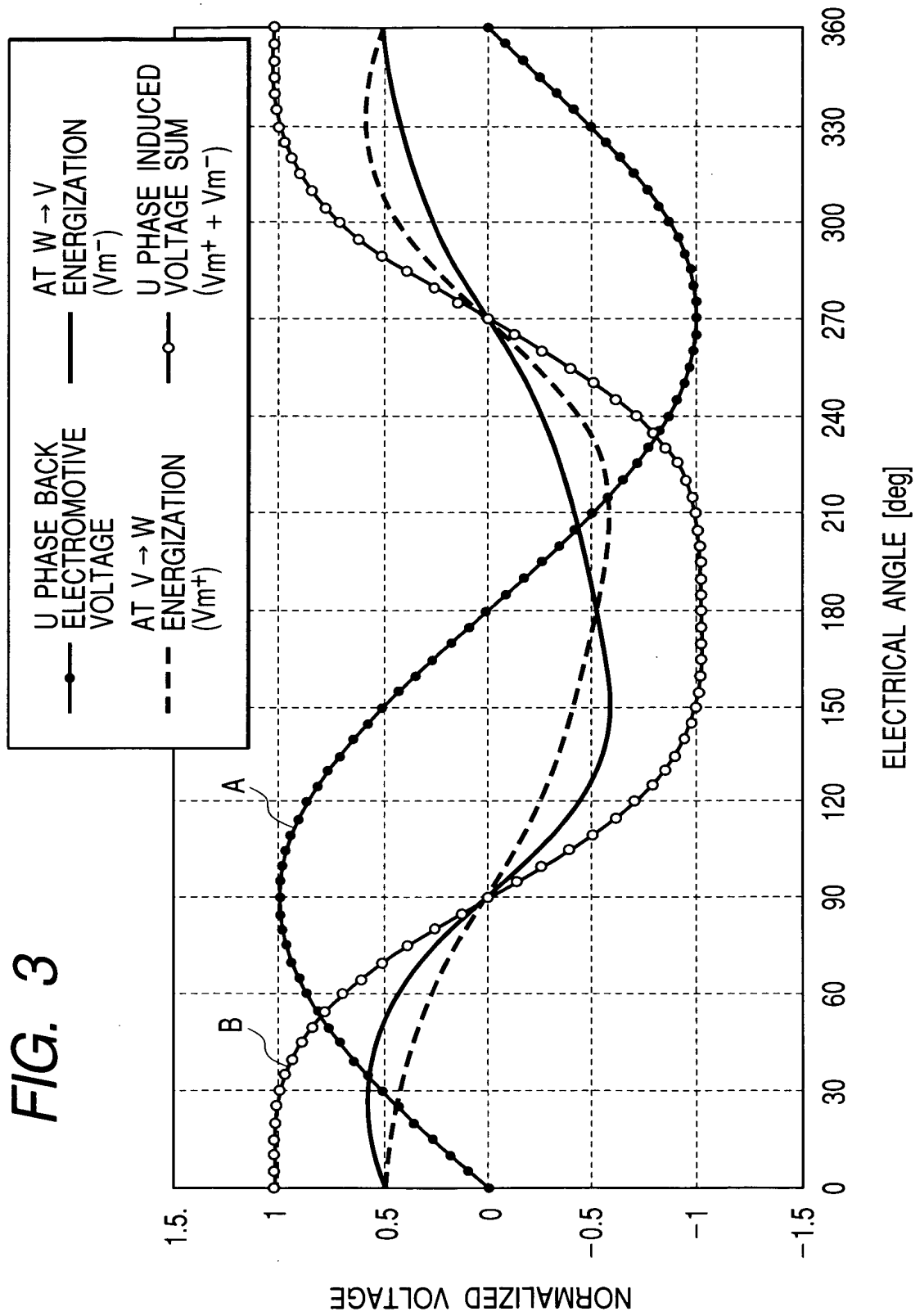


FIG. 2(b)

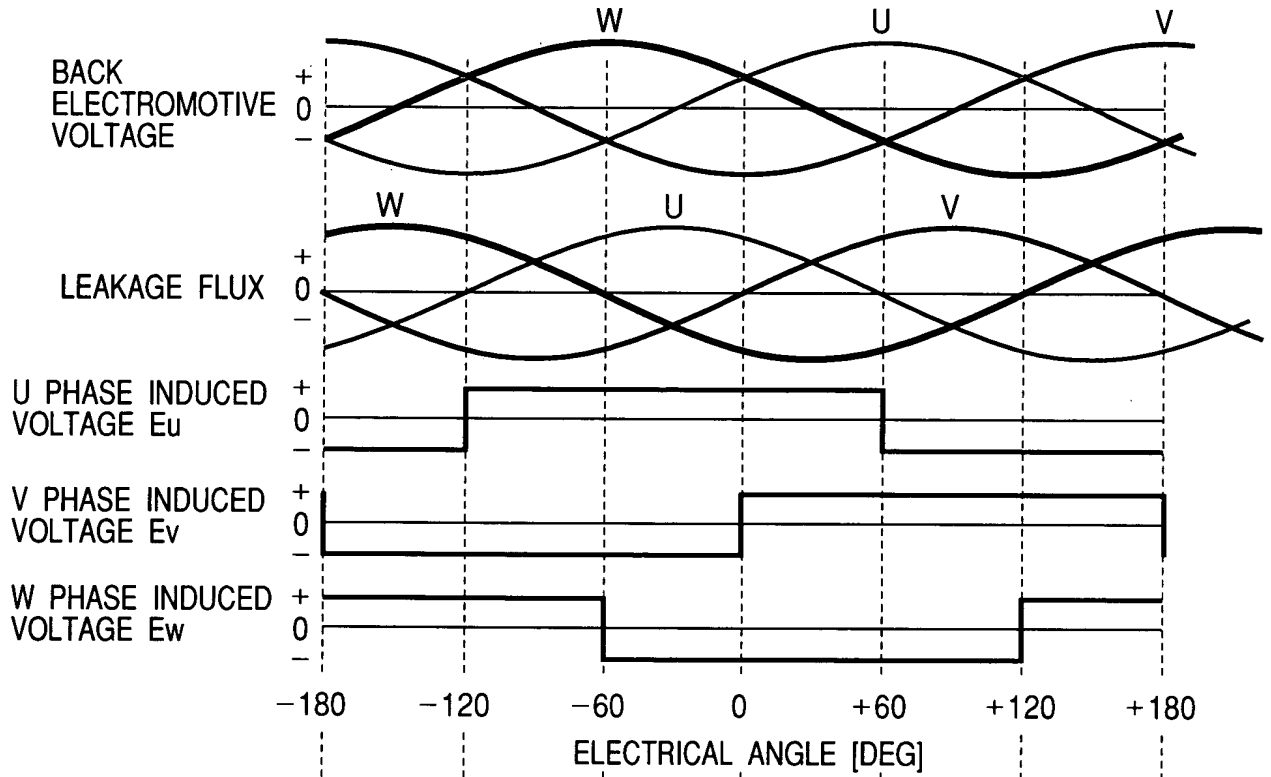


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FIG. 4

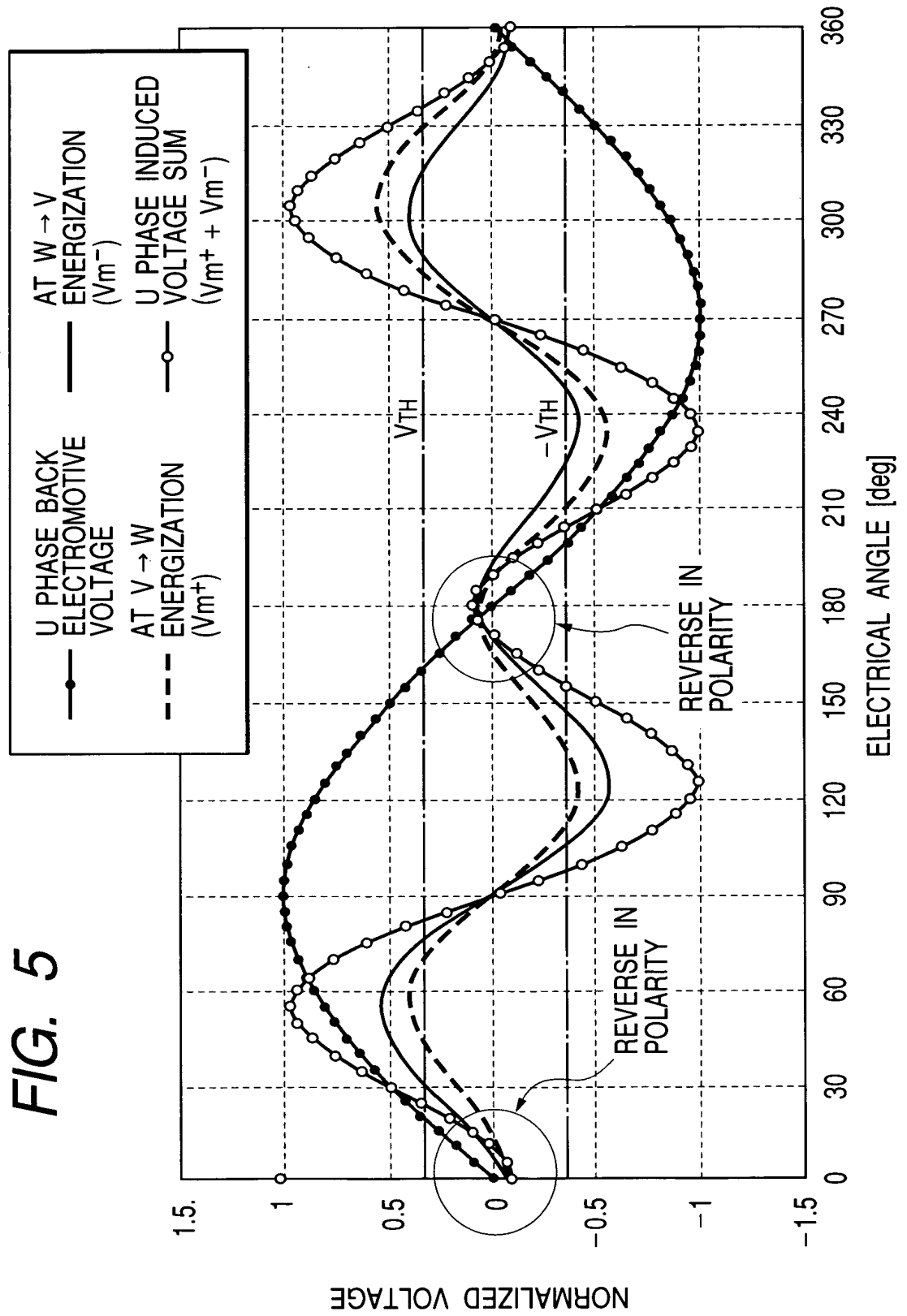


INDUCED VOLTAGE	U PHASE POLARITY	NEGATIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE
	V PHASE POLARITY	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
	W PHASE POLARITY	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE
ENERGIZED PHASE [DEG]	V PHASE → U PHASE	W PHASE → U PHASE	W PHASE → V PHASE	U PHASE → V PHASE	U PHASE → W PHASE	V PHASE → W PHASE	
NEXT-PERIOD DETECTED PHASE	U PHASE	W PHASE	V PHASE	U PHASE	W PHASE	V PHASE	

REVERSE
ROTATIONAL
DIRECTION

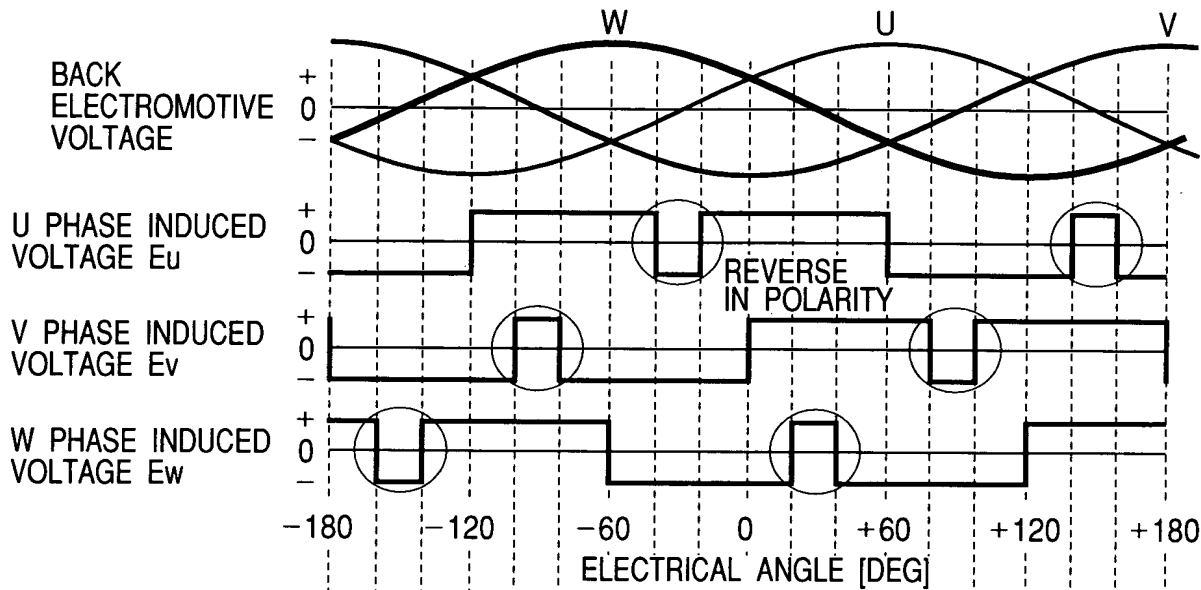
NORMAL
ROTATIONAL
DIRECTION

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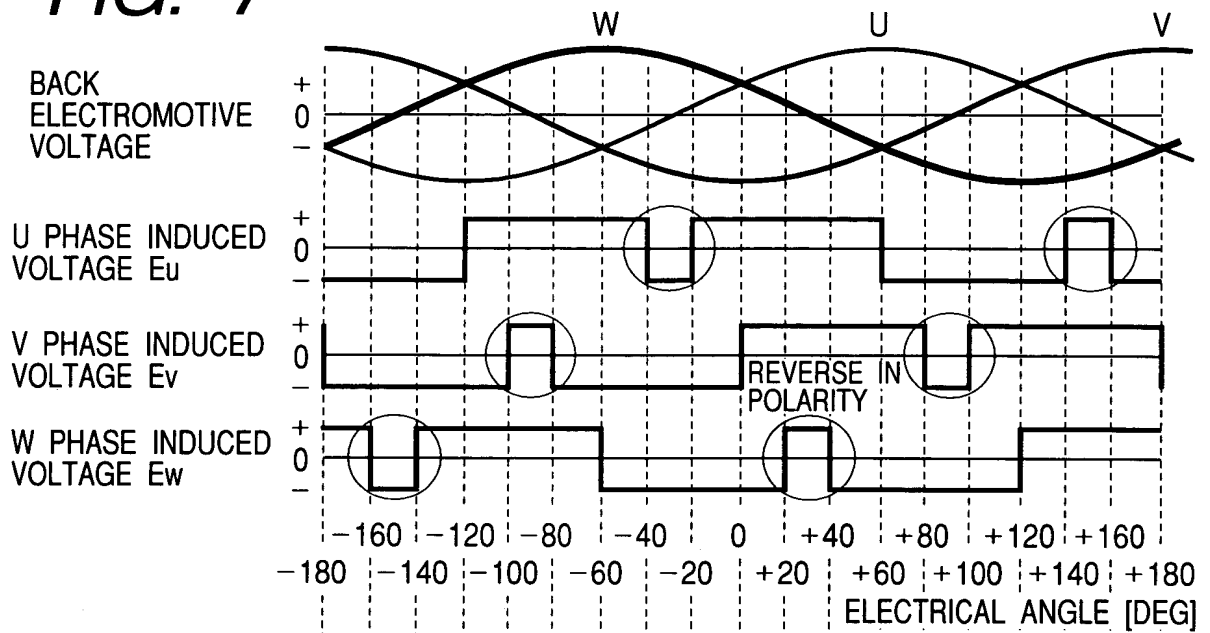
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FIG. 6



INDUCED VOLTAGE	U PHASE POLARITY	V PHASE POLARITY	W PHASE POLARITY
	NEGATIVE	NEGATIVE	POSITIVE
	NEGATIVE	NEGATIVE	NEGATIVE
	NEGATIVE	NEGATIVE	POSITIVE
	POSITIVE	NEGATIVE	POSITIVE
	POSITIVE	POSITIVE	POSITIVE
	POSITIVE	NEGATIVE	POSITIVE
	POSITIVE	NEGATIVE	NEGATIVE
	NEGATIVE	NEGATIVE	NEGATIVE
	NEGATIVE	NEGATIVE	NEGATIVE
	POSITIVE	POSITIVE	NEGATIVE
	POSITIVE	POSITIVE	POSITIVE
	POSITIVE	POSITIVE	NEGATIVE
	NEGATIVE	POSITIVE	NEGATIVE
	NEGATIVE	POSITIVE	NEGATIVE
	NEGATIVE	POSITIVE	POSITIVE
	POSITIVE	POSITIVE	POSITIVE
	POSITIVE	POSITIVE	POSITIVE

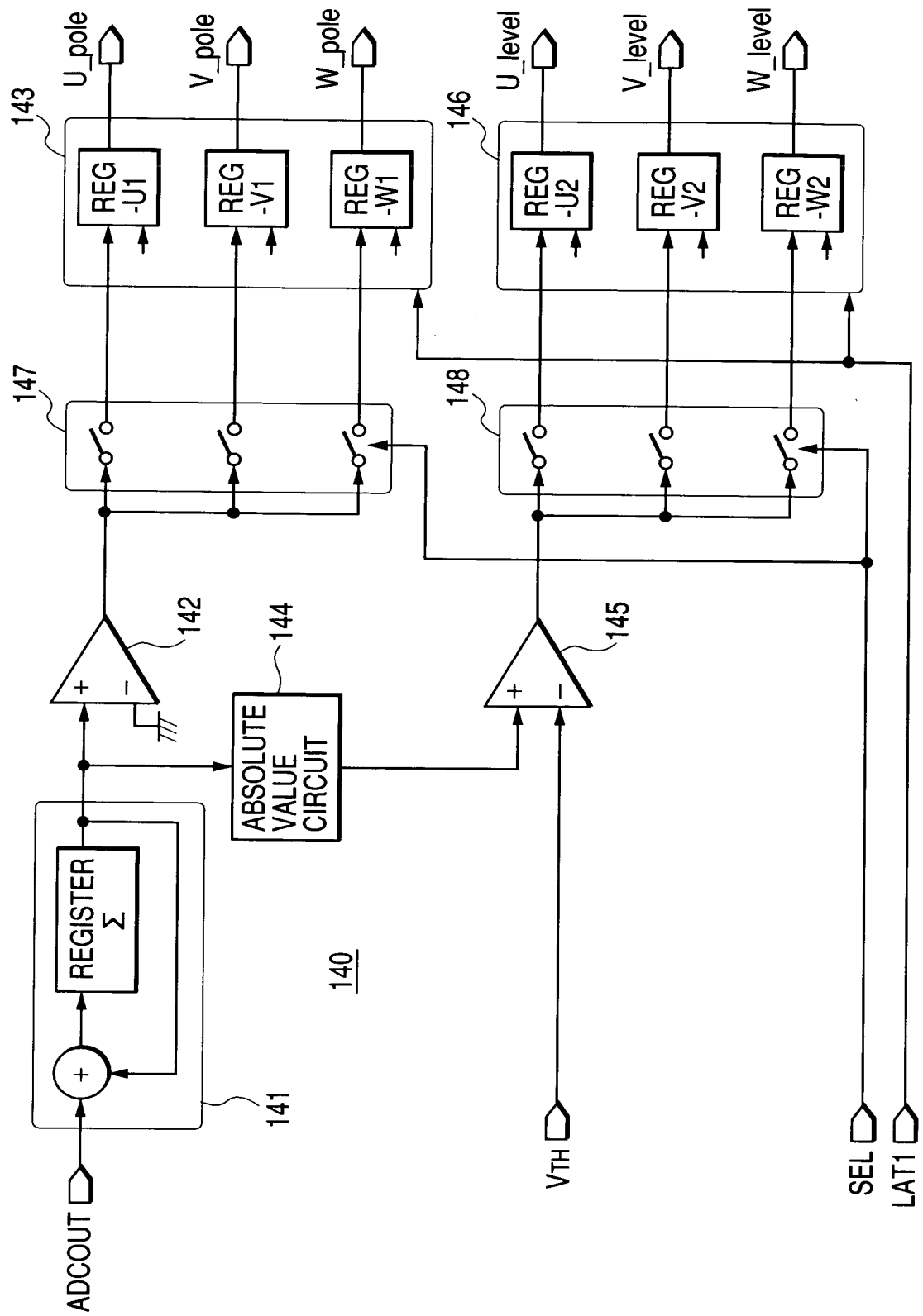
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FIG. 7

INDUCED VOLTAGE	U PHASE POLARITY (U_{pole})	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	NEGATIVE
	V PHASE POLARITY (V_{pole})	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
	W PHASE POLARITY (W_{pole})	POSITIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
INDUCED VOLTAGE	U PHASE LEVEL (U_{level})	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	LOW	HIGH
	V PHASE LEVEL (V_{level})	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	HIGH	HIGH
	W PHASE LEVEL (W_{level})	HIGH	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
INDUCED VOLTAGE	U PHASE POLARITY (U_{pole2})	NEGATIVE			POSITIVE			POSITIVE			POSITIVE			NEGATIVE			NEGATIVE		
	V PHASE POLARITY (V_{pole2})	NEGATIVE			NEGATIVE			NEGATIVE			POSITIVE			POSITIVE			POSITIVE		
	W PHASE POLARITY (W_{pole2})	POSITIVE			POSITIVE			NEGATIVE			NEGATIVE			NEGATIVE			POSITIVE		
ENERGIZING DIRECTION		V PHASE → U PHASE			W PHASE → U PHASE			W PHASE → V PHASE			U PHASE → V PHASE			U PHASE → W PHASE			V PHASE → W PHASE		

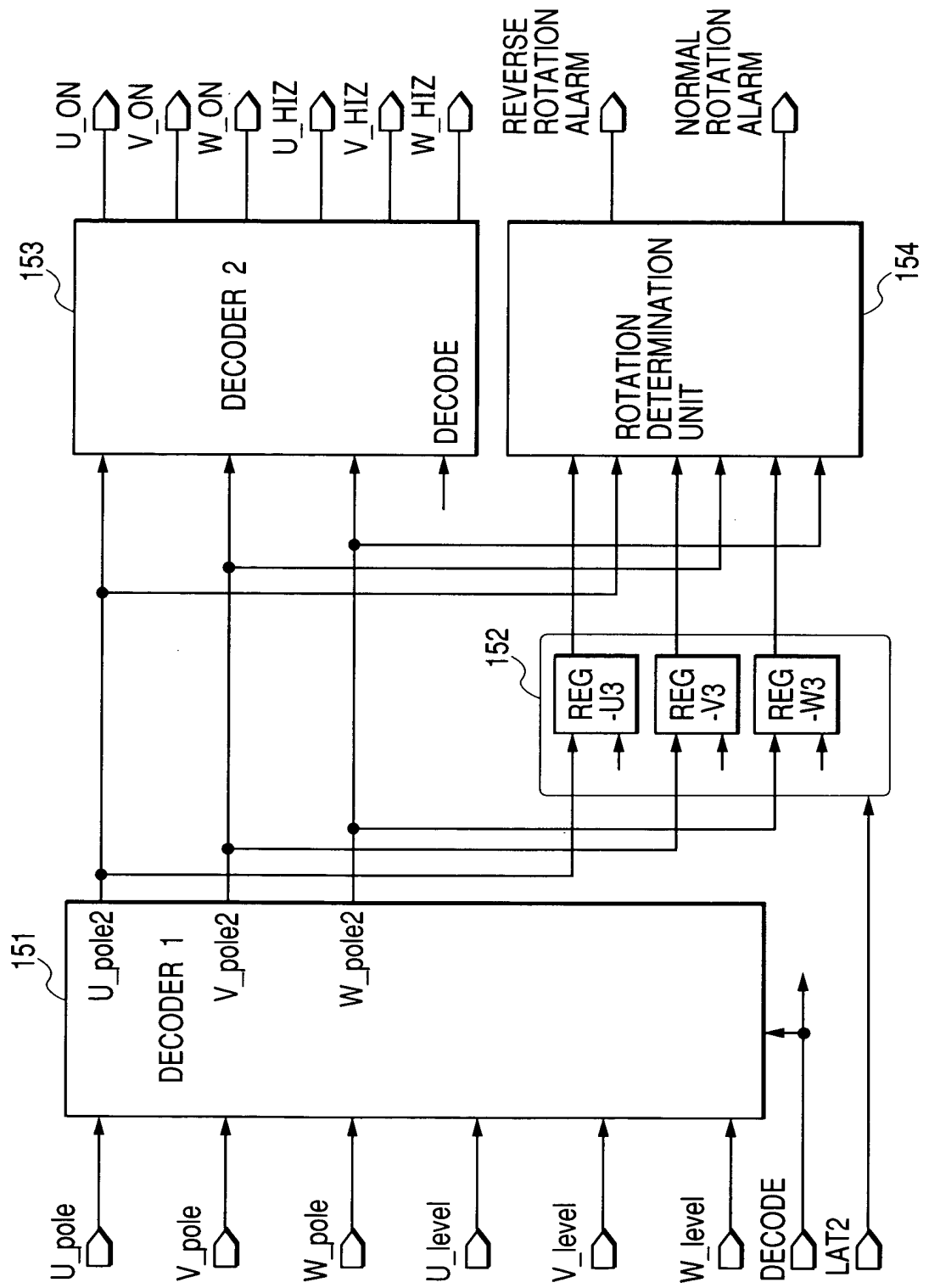
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FIG. 8



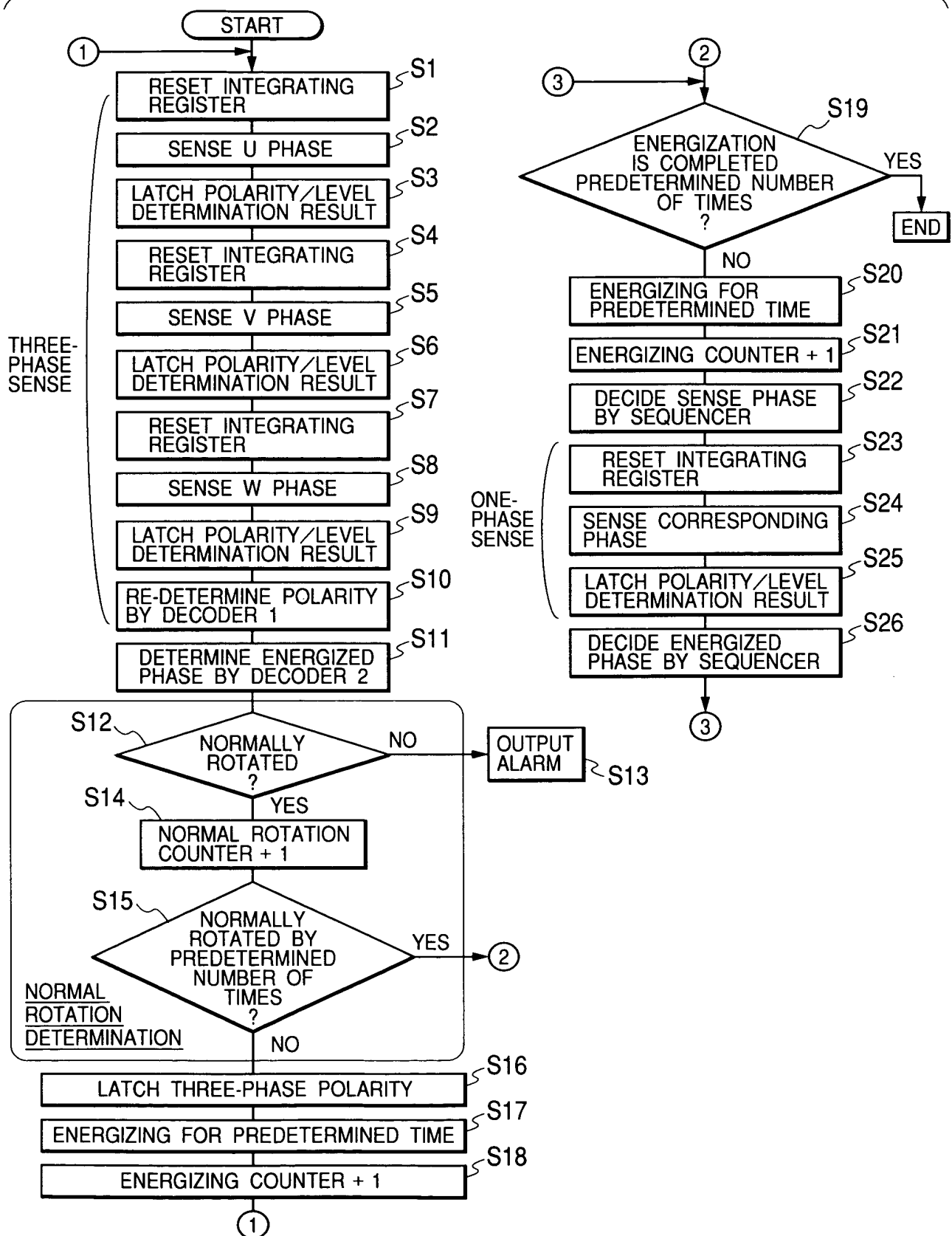
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FIG. 9



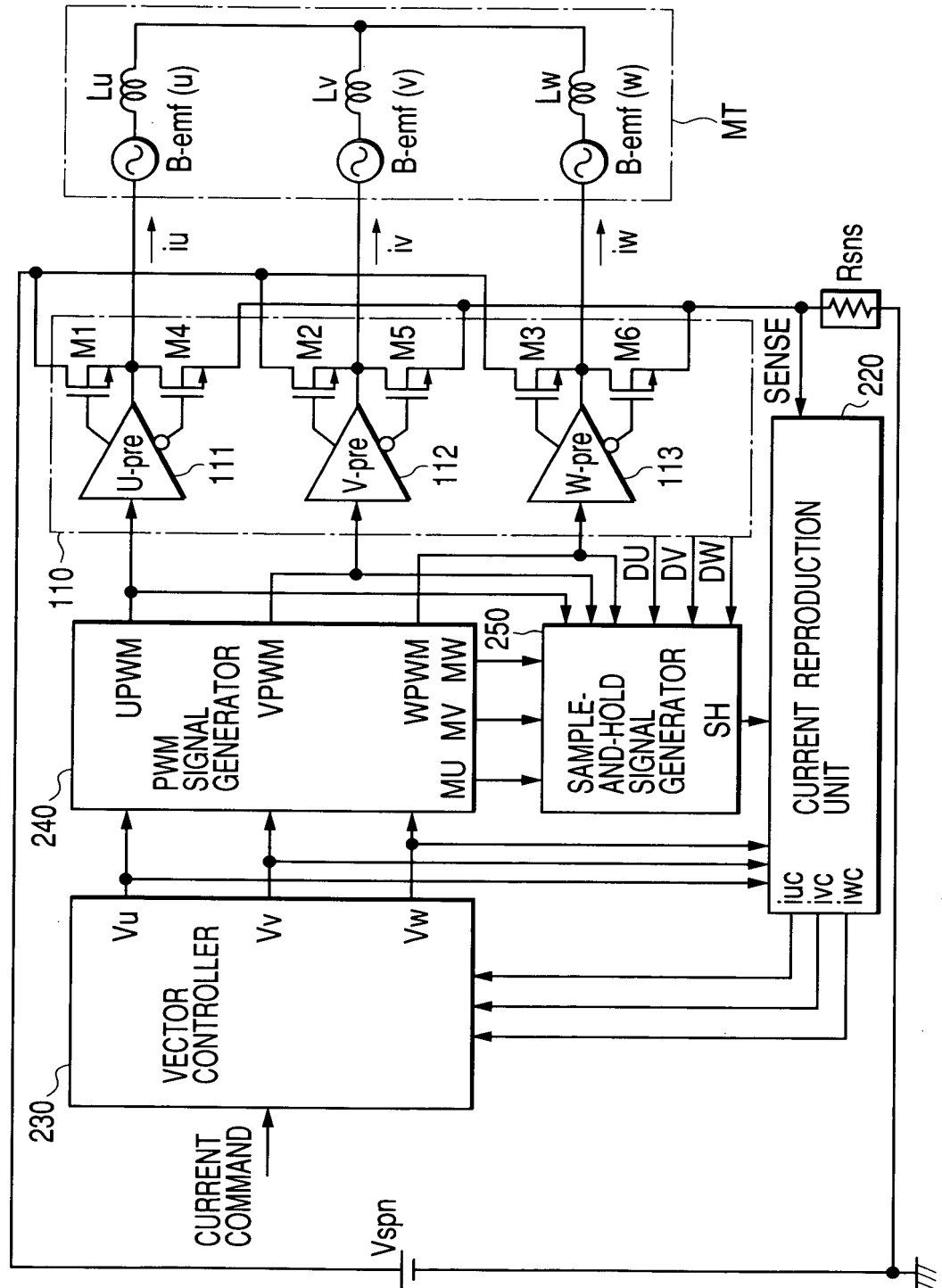
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FIG. 10



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FIG. 11



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FIG. 12

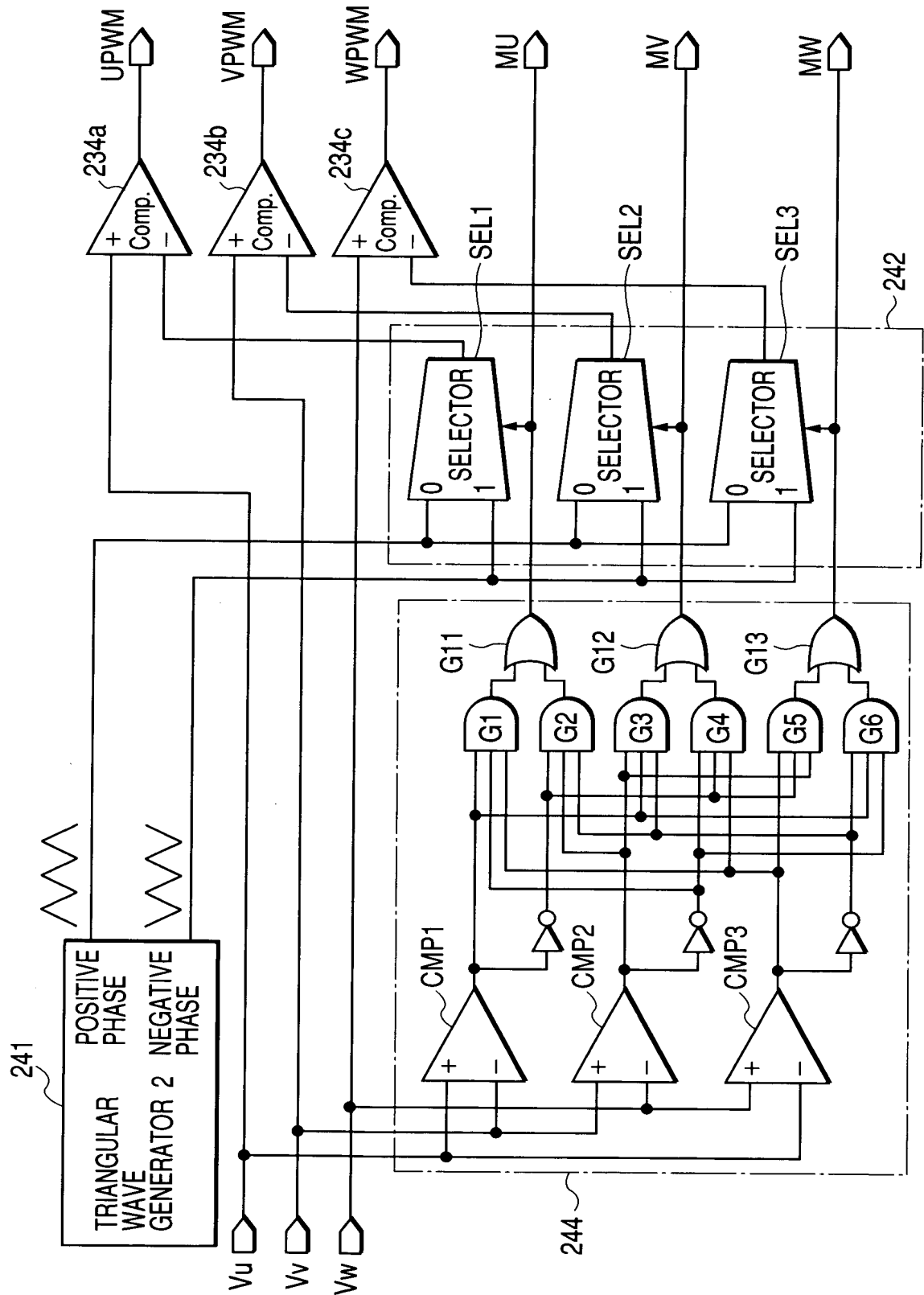
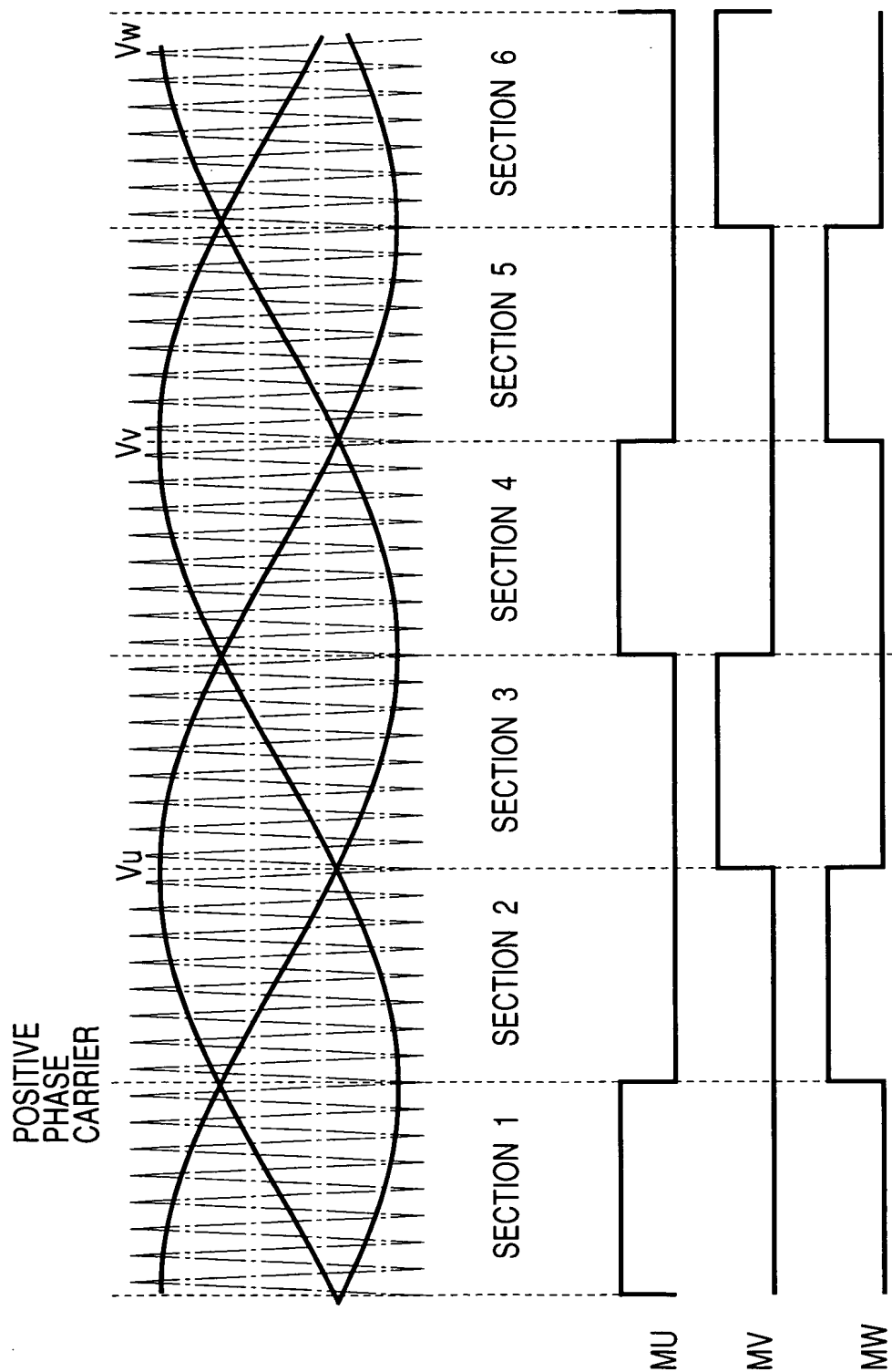


FIG. 13



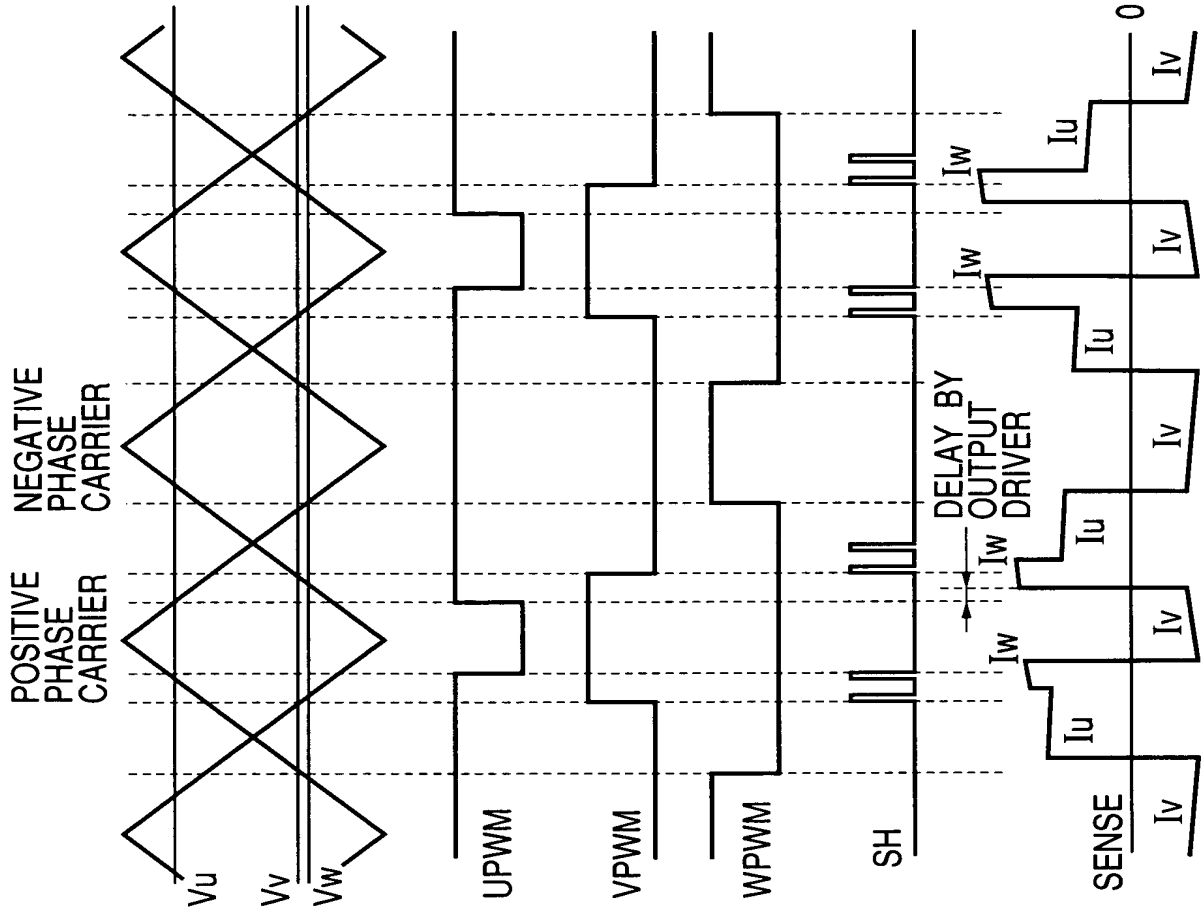


FIG. 14(A)

FIG. 14(B)

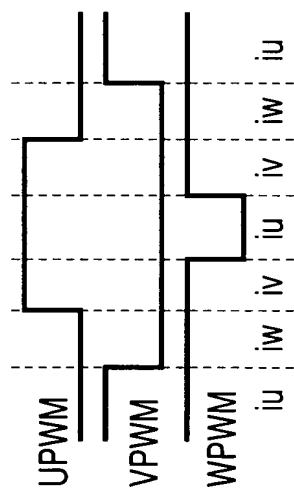
FIG. 14(C)

FIG. 14(D)

FIG. 14(E)

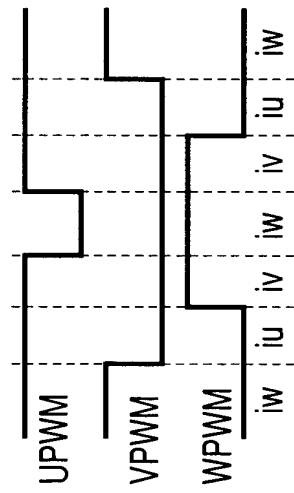
FIG. 14(F)

FIG. 15(A)



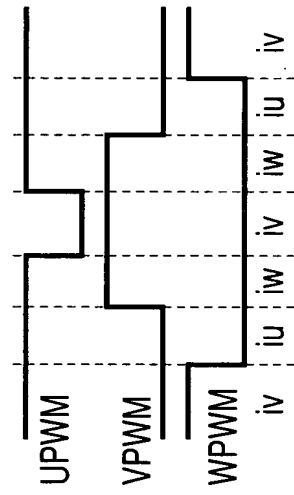
(SECTION 1 $V_u, V_v, V_w = M, L, H$)

FIG. 15(B)



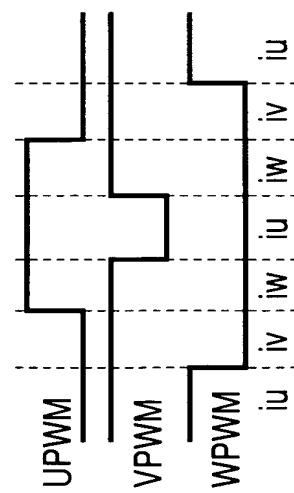
(SECTION 2 $V_u, V_v, V_w = H, L, M$)

FIG. 15(C)



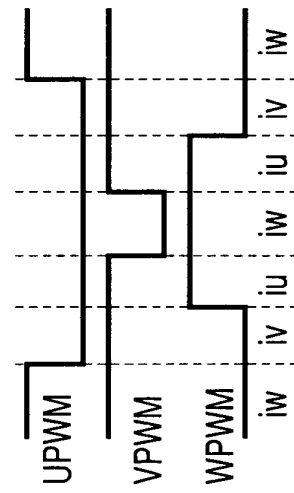
(SECTION 3 $V_u, V_v, V_w = H, M, L$)

FIG. 15(D)



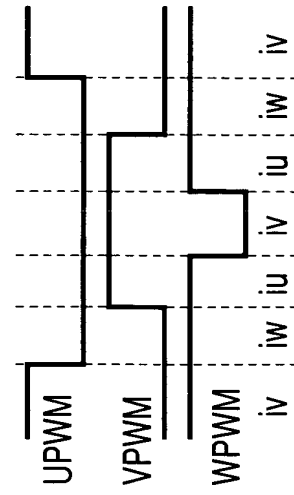
(SECTION 4 $V_u, V_v, V_w = M, H, L$)

FIG. 15(E)



(SECTION 5 $V_u, V_v, V_w = L, H, M$)

FIG. 15(F)



(SECTION 6 $V_u, V_v, V_w = L, M, H$)

FIG. 16

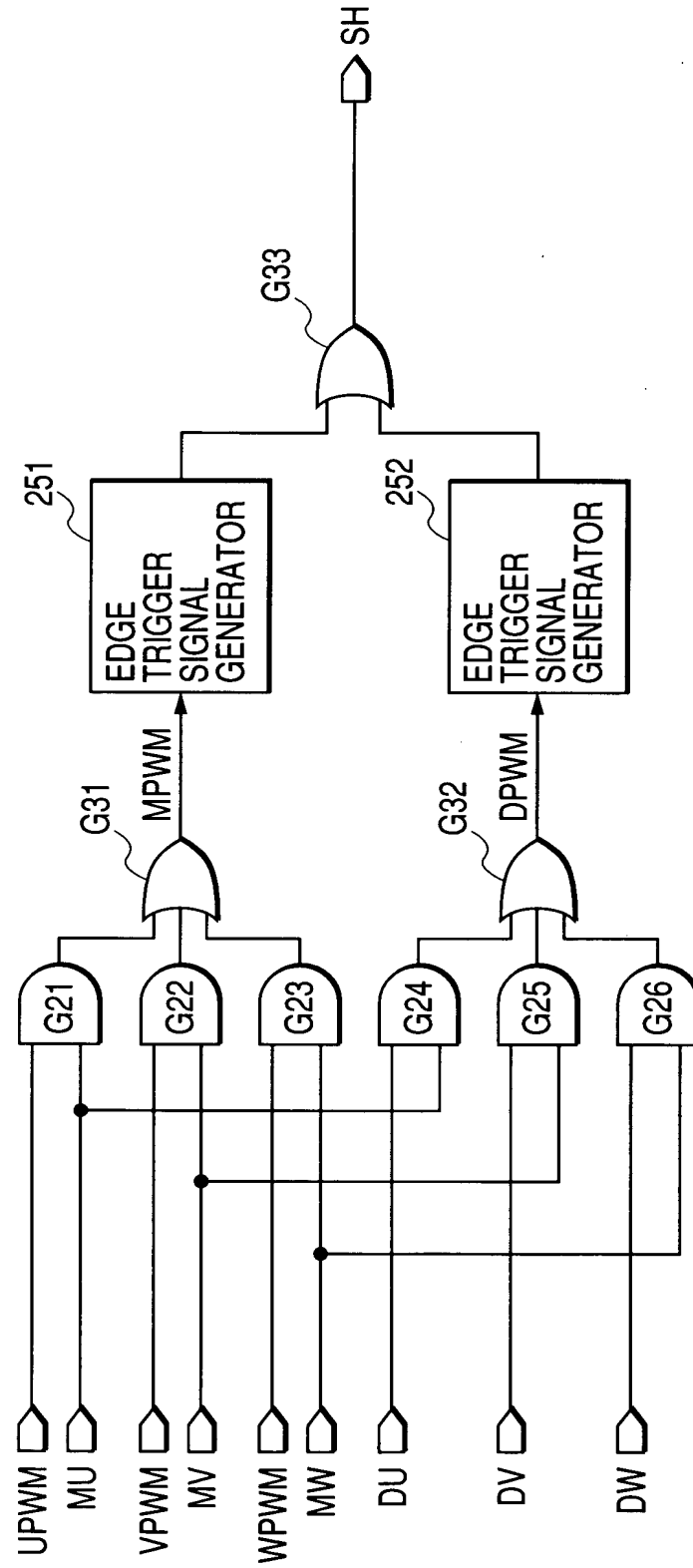
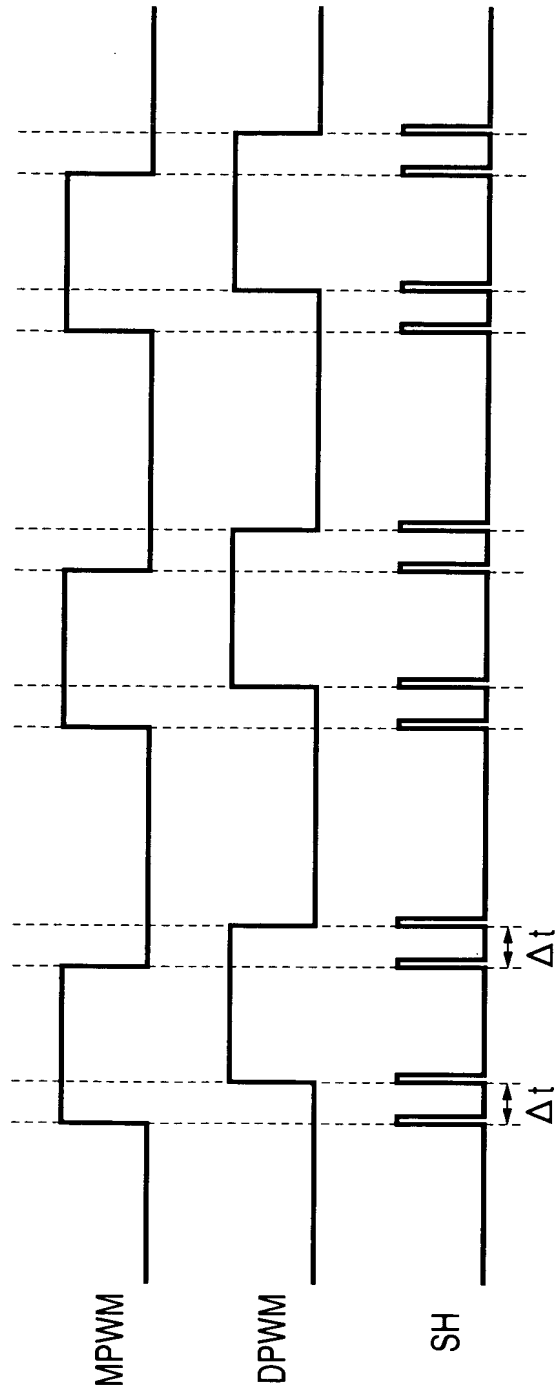


FIG. 17



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FIG. 18

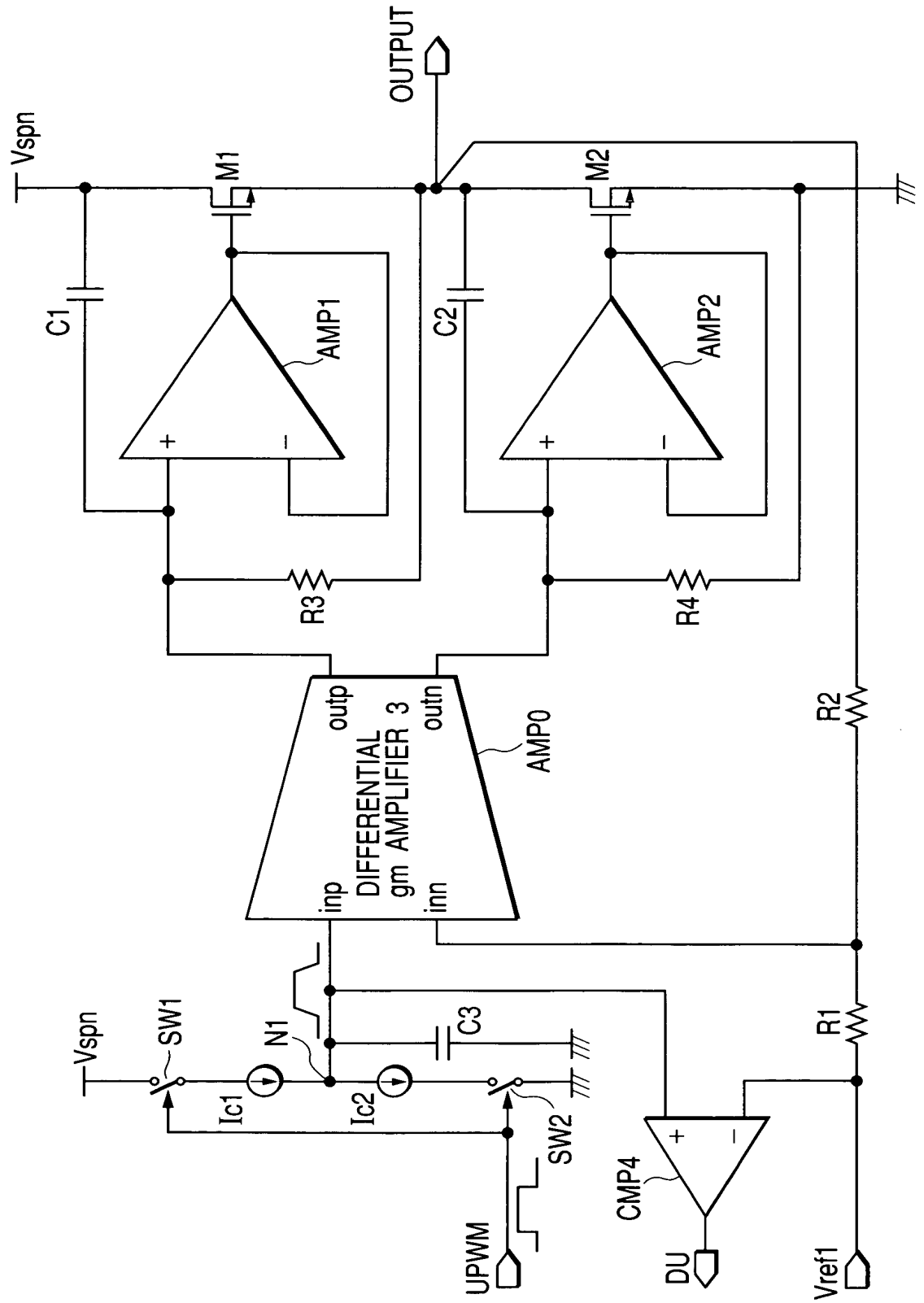


FIG. 19

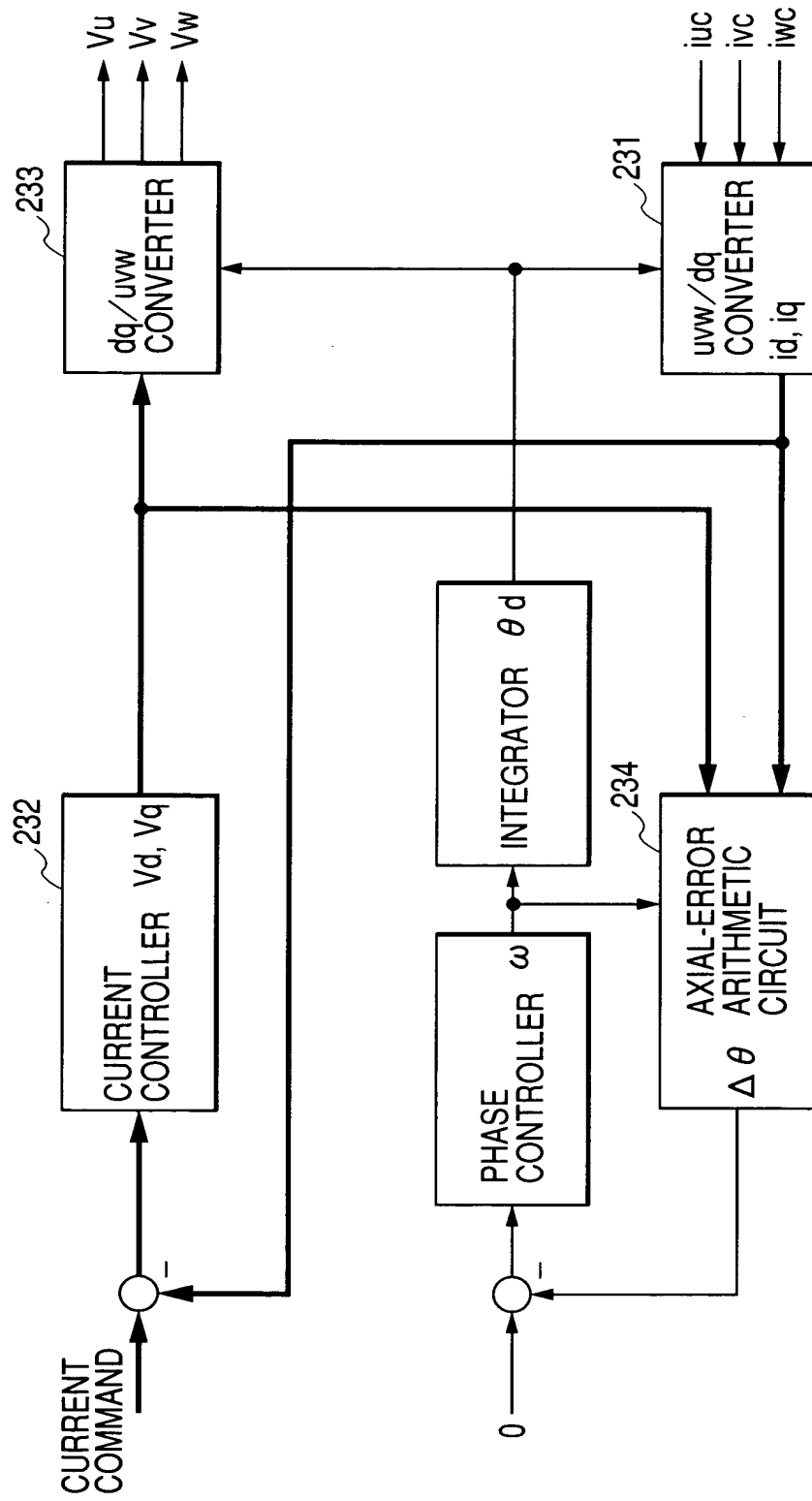


FIG. 20

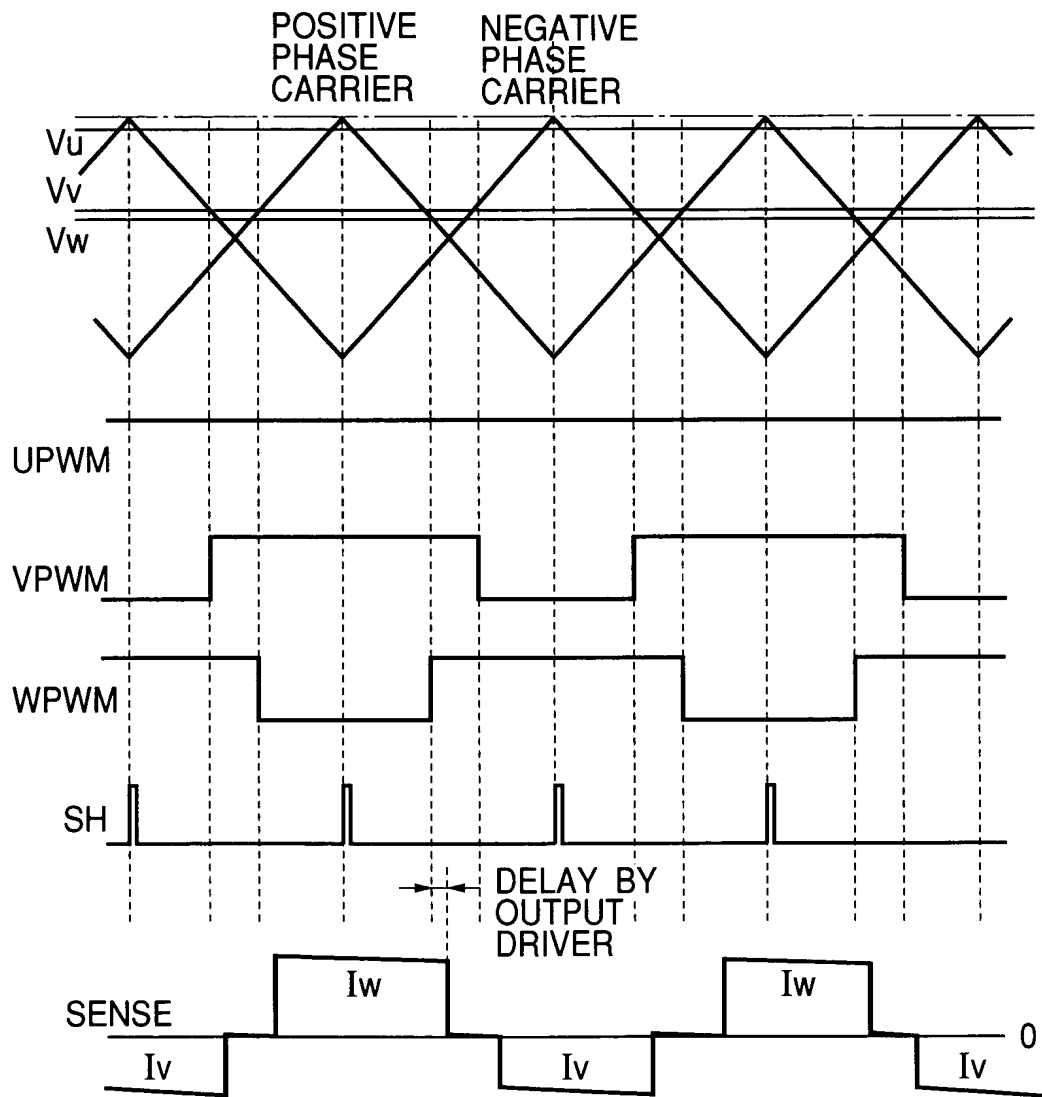
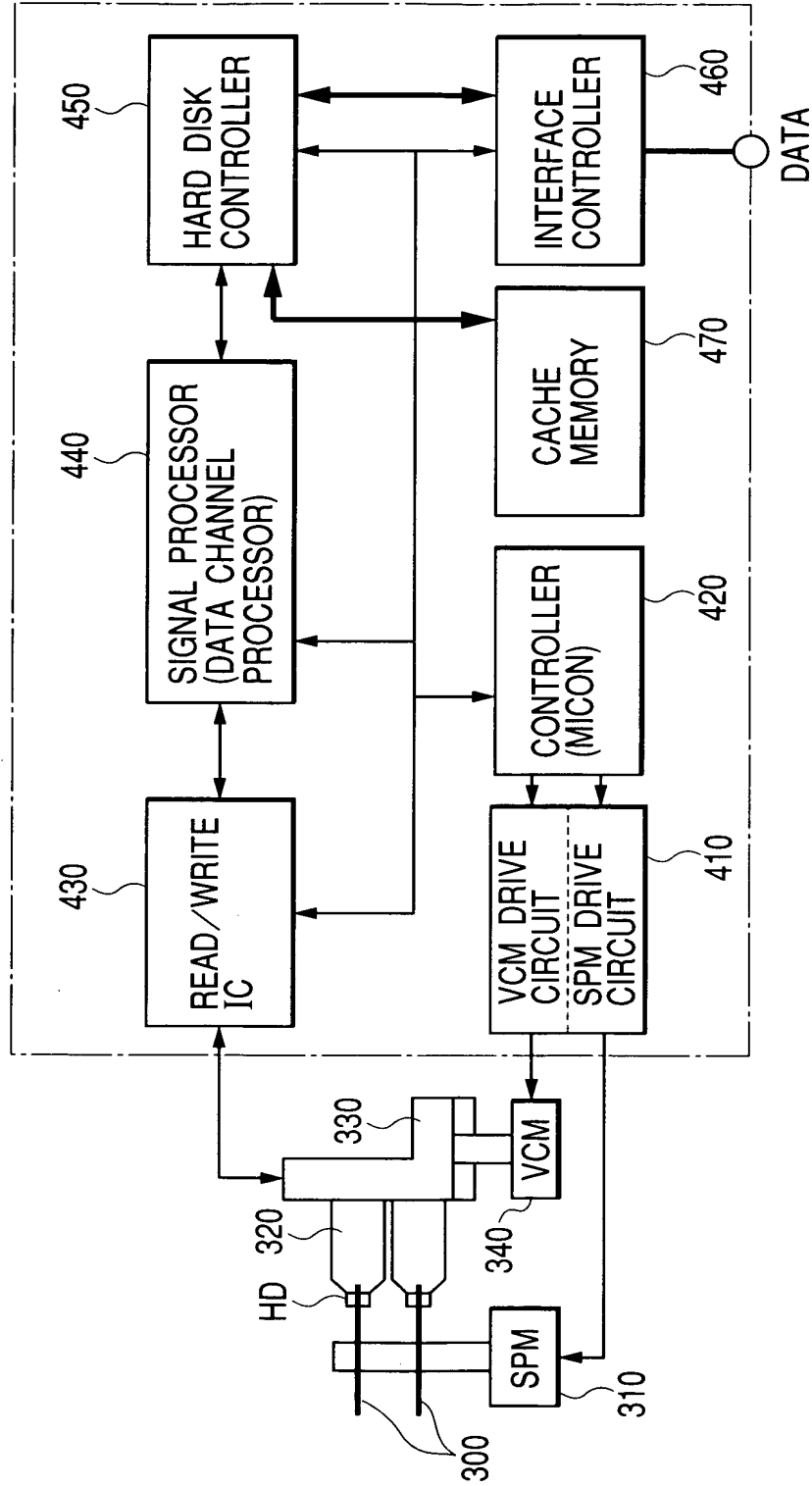


FIG. 21



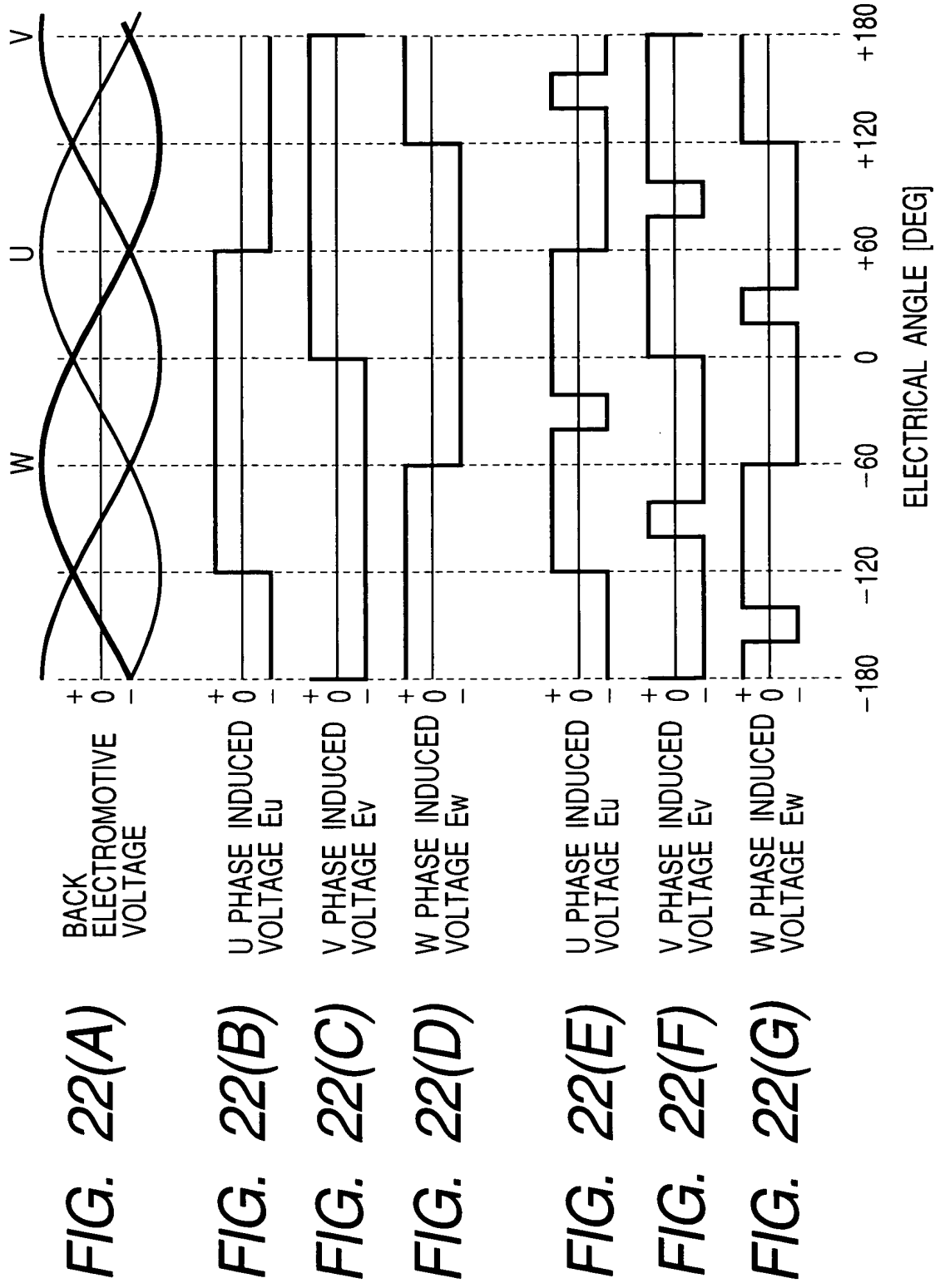


FIG. 23

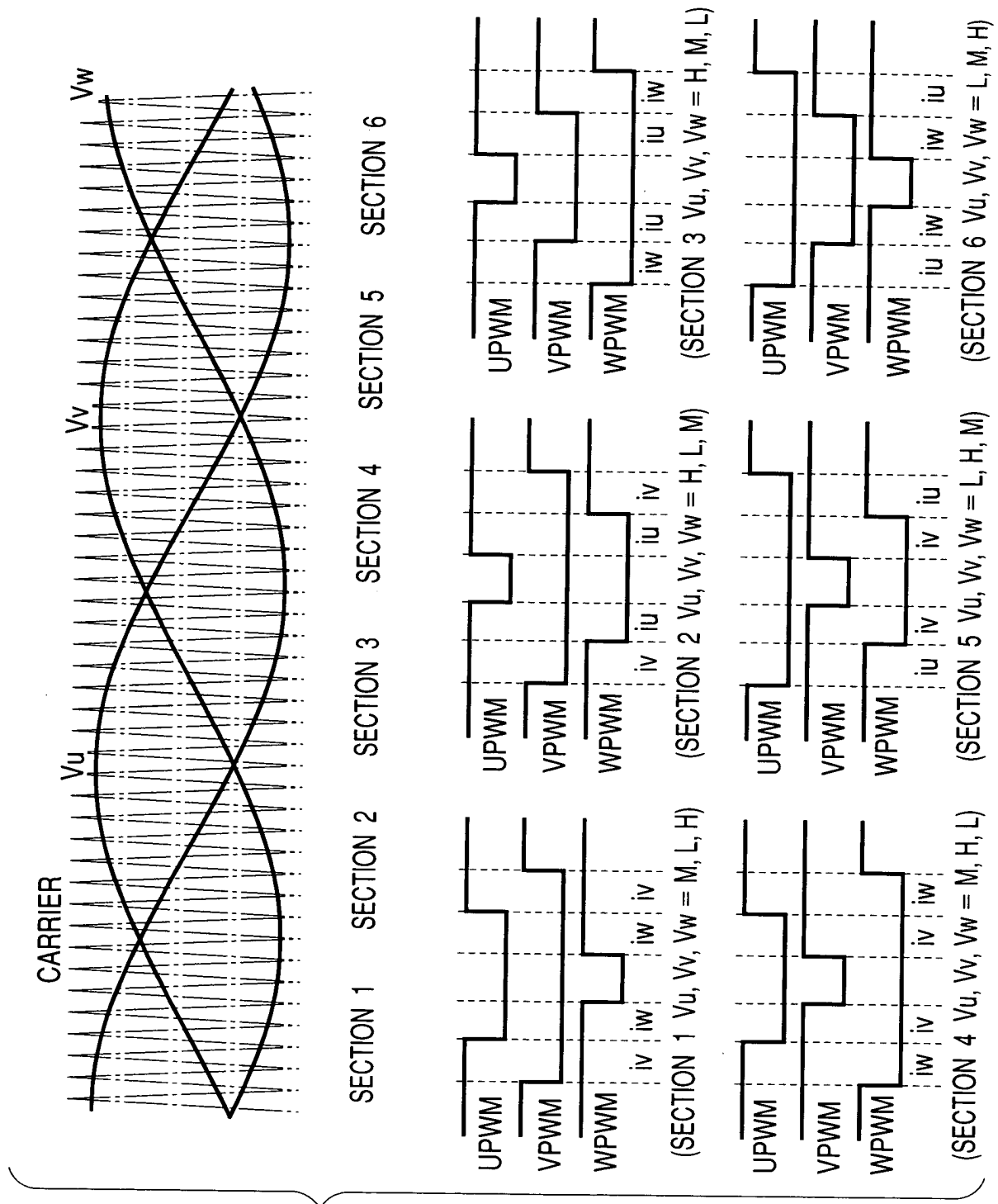


FIG. 24

